SEQUENCE LISTING

<110> DYAX Corp.
Ley, Arthur C.
Luneau, Christopher J.
Ladner, Robert C

<120> NOVEL ENTEROKINASE CLEAVAGE SEQUENCES

<130> DYX-012.1 US, DYX-012.1 PCT

<140> 09/884,767
<141> 2001-06-19

<150> US 09/597,321
<151> 2000-06-19

<160> 217

<170> PatentIn version 3.1

<210> 1
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa1 is an optional amino acid which, if present, is Ala, Asp, Glu, Phe, Gly, Ile, Asn, Ser, or Val

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 is an optional amino acid which, if present, is Ala, Asp, Glu, His, Ile, Leu, Met, Gln or Ser

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa3 is an optional amino acid which, if present, is Asp, Glu, Phe, His, Ile, Met, Asn, Pro, Val, or Trp

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa4 is Ala, Asp, Glu, or Thr

<220>

<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa7 is any amino acid

<400> 1

Xaa Xaa Xaa Xaa Asp Arg Xaa
1 5

<210> 2
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa1 is an optional amino acid which, if present, is Asp or Glu

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 is an optional amino acid which, if present, is Val

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa3 is an optional amino acid which, if present, is Tyr

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa4 is Asp, Glu or Ser

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa7 is any amino acid

<400> 2

Xaa Xaa Xaa Xaa Glu Arg Xaa
1 5

<210> 3
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<400> 3

Asp Ile Asn Asp Asp Arg Xaa
1 5

<210> 4
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<400> 4

Gly Asn Tyr Thr Asp Arg Xaa
1 5

<210> 5
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> streptavidin binding sequence

<400> 5

Cys His Pro Gln Phe Cys
1 5

<210> 6
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> streptavidin binding sequence

<400> 6

His Pro Gln Phe
1

<210> 7
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> streptavidin binding sequence

<400> 7

Cys His Pro Gln Phe Cys Ser Trp Arg
1 5

<210> 8
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is Ile (natural trypsinogen site) or any amino acid (syntheti
c cleavage sites)

<400> 8

Asp Asp Asp Asp Lys Xaa
1 5

<210> 9
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> exogenous display polypeptide of a phage display library

<220>
<221> MISC_FEATURE
<222> (43)..(55)
<223> X is any amino acid except Cys

<400> 9

Ala Glu Trp His Pro Gln Phe Ser Ser Pro Ser Ala Ser Arg Pro Ser
1 5 10 15

Glu Gly Pro Cys His Pro Gln Phe Pro Arg Cys Tyr Ile Glu Asn Leu
20 25 30

Asp Glu Phe Arg Pro Gly Gly Ser Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Ala Gln Ser Asp Gly Gly Gly Ser
50 55 60

Thr Glu His Ala Glu Gly Gly Ser Ala Asp Pro Ser Tyr Ile Glu Gly
65 70 75 80

Arg Ile Val Gly Ser Ala
85

<210> 10
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 10

Tyr Glu Trp Gln Asp Arg Thr
1 5

<210> 11
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 11

Asn Ser Ile Lys Asp Arg Val
1 5

<210> 12
<211> 7

<212> PRT
<213> Artificial S quence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 12

Ala Lys Ala Thr Glu Arg His
1 5

<210> 13
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 13

Leu Gly Lys Val Asp Arg Thr
1 5

<210> 14
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 14

Gly Gly Met Ala Asp Lys Phe
1 5

<210> 15
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 15

Gly His Trp Leu Asp Lys Asn
1 5

<210> 16
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetic nterokinase cleavage sequence

<400> 16

Asn Lys Ala Lys Asp Arg Met
1 5

<210> 17
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 17

Ser Glu Asn Phe Asp Lys Asn
1 5

<210> 18
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 18

Leu Asp Trp Glu Asp Arg Ala
1 5

<210> 19
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 19

Ser Thr Asp Ala Glu Arg Met
1 5

<210> 20
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 20

His Thr Phe Ser Asp Arg Gln
1 5

<210> 21
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 21

Gly Ser Gly Gly Asp Arg Leu
1 5

<210> 22
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 22

Gly Phe Tyr Asn Asp Arg Met
1 5

<210> 23
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 23

Ile Met Pro Gln Asp Lys Ser
1 5

<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 24

Gly Gly Val Glu Asp Arg Ser
1   5

<210> 25
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 25

Trp Gln Glu Ser Asp Arg Ala
1   5

<210> 26
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 26

Gly Ser Gly Gly Asp Arg His
1   5

<210> 27
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 27

Gly His Ile Phe Asp Arg Ser
1   5

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic enterokinase cleavage sequence

<400> 28

Gly Ser Gly Gly Glu Lys Leu
1 5

<210> 29
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 29

Ser Gly Gly Glu Asp Arg Met
1 5

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 30

Gly Ser Gly Gly Glu Arg Thr
1 5

<210> 31
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 31

Pro Asp Pro Gln Glu Arg Gln
1 5

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synth tic enterokinase cleavage sequence

<400> 32

Tyr Ile Met Gly Asp Arg Thr
1 5

<210> 33
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 33

Gln Asn His Ser Asp Arg Thr
1 5

<210> 34
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 34

Ile Ala His Gly Glu Arg Ala
1 5

<210> 35
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 35

His Glu Met Asn Asp Arg His
1 5

<210> 36
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 36

Thr His Asn Gly Glu Lys Met
1 5

<210> 37
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 37

His Asp Glu Ala Glu Lys Thr
1 5

<210> 38
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 38

Gly Tyr Trp Ile Asp Arg Ser
1 5

<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 39

Gly Ser Gly Gly Glu Arg Leu
1 5

<210> 40
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 40

Ser Gly Gly Ser Asp Arg Leu
1 5

<210> 41
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 41

Ala Gln Tyr Met Asp Leu Met
1 5

<210> 42
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 42

Gly Ser Gly Gly Glu Arg Asn
1 5

<210> 43
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 43

Gly Ser Gly Gly Glu Asn Gly
1 5

<210> 44
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 44

Glu Asn Tyr Glu Glu Arg Thr
1 5

<210> 45
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 45

Asn Ile Tyr Gly Asp Arg Ile
1 5

<210> 46
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 46

Gly Gly Phe Val Asp Lys Gln
1 5

<210> 47
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 47

Gly Ser Gly Gly Glu Lys Val
1 5

<210> 48
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 48

Gly Lys Phe Glu Asp Arg Asn

1 5

<210> 49
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 49

Pro Ala His Thr Asp Arg Asp
1 5

<210> 50
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 50

Gln Gln Met His Asp Arg Phe
1 5

<210> 51
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 51

Asp Met Gly Tyr Asp Arg Gly
1 5

<210> 52
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 52

Ser Gly Gly Asp Glu Lys Glu
1 5

<210> 53
<211> 7
<212> PRT
<213> Artificial Sequenc

<220>
<223> synthetic enterokinase cleavage sequence

<400> 53

Ile Glu Ser Ala Asp Arg Thr
1 5

<210> 54
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 54

Arg Asn Met Asp Glu Arg Ala
1 5

<210> 55
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 55

Thr Val Gly Met Asp Lys Phe
1 5

<210> 56
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 56

Gly Ser Gly Gly Asp Arg Phe
1 5

<210> 57
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 57

Arg His Asn Tyr Asp Arg Ile
1   5

<210> 58
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 58

Val Tyr His Val Asp Lys Met
1   5

<210> 59
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 59

Gly Ser Gly Gly Glu Arg Asn
1   5

<210> 60
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 60

Gly Gly Lys Tyr Asp Arg Met
1   5

<210> 61
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 61

Gly Gly Asn Asp Asp Lys Met
1   5

<210> 62
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 62

Ala Ala Val Glu Asp Arg Asn
1   5

<210> 63
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 63

Pro Cys Lys Asp Glu Arg Phe
1   5

<210> 64
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 64

Gly Ser Glu Leu Asp Arg Met
1   5

<210> 65

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 65

Phe Ser Glu Glu Asp Arg Met
1 5

<210> 66
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 66

Gly Ser Gly Gly Glu Arg Phe
1 5

<210> 67
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 67

Tyr Gln Pro Thr Asp Arg Thr
1 5

<210> 68
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 68

Ser Gly Gly Glu Asp Arg Met
1 5

<210> 69
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 69

Thr Glu Gln Met Asp Arg Met
1   5

<210> 70
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 70

Gln Pro Phe Asp Asp Arg Asp
1   5

<210> 71
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 71

Gly Ser Gly Gly Glu Arg Thr
1   5

<210> 72
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 72

Glu Gly Met Thr Asp Arg Leu
1   5

<210> 73
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 73

Glu Ile Pro Glu Asp Arg Met
1 5

<210> 74
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> natural enterokinase cleavage sequence

<400> 74

Gly Asp Asp Asp Asp Lys Ile
1 5

<210> 75
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 75

Gly Ser Gly Gly Glu Arg Ser
1 5

<210> 76
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 76

His Gly Tyr Glu Glu Arg Met
1 5

<210> 77
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequenc

<400> 77

Lys Pro Met Glu Glu Arg Met
1 5

<210> 78
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 78

Ser Gly Gly Asn Asp Arg Met
1 5

<210> 79
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 79

Gly Gly Thr Asp Asp Arg Phe
1 5

<210> 80
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 80

Asp Val Tyr Ser Glu Arg Met
1 5

<210> 81
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 81

Asp Val Tyr Ser Glu Arg Met
1 5

<210> 82
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 82

Gly Ser Gly Gly Asp Arg Asn
1 5

<210> 83
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 83

Asp Val Thr Ala Asp Asp Arg
1 5

<210> 84
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 84

Ala Glu Phe Ala Asp Arg Phe
1 5

<210> 85
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic enterokinase cleavage sequence

<400> 85

Asn Asn Ser Asp Glu Lys Ile
1 5

<210> 86
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 86

Pro Gly Gly Asp Asp Arg Trp
1 5

<210> 87
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 87

Ser Gly Gly Glu Glu Arg Val
1 5

<210> 88
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 88

Val Trp Pro Asp Asp Arg Ser
1 5

<210> 89
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 89

His Arg Gln Thr Asp Arg Met
1 5

<210> 90
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 90

Lys Glu Ala Glu Asp Arg Ala
1 5

<210> 91
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 91

Val Gly Asp Asp Glu Arg His
1 5

<210> 92
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 92

Asn Ser Met Ala Asp Arg Asn
1 5

<210> 93
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 93

Thr Glu Ph Glu Asp Lys Trp
1   5

<210> 94
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 94

Glu Ser Gly Gly Glu Arg Asp
1   5

<210> 95
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 95

Asn Asn Tyr Trp Asp Arg Met
1   5

<210> 96
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 96

Phe Ser Glu Glu Asp Arg Met
1   5

<210> 97
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 97

Glu Met His Glu Glu Arg Met
1 5

<210> 98
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 98

Asp Gln Met Glu Asp Arg Gln
1 5

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 99

Glu Trp Lys Met Asp Arg Met
1 5

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 100

Ser Tyr Thr Trp Asp Arg Ser
1 5

<210> 101
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 101

Ser Phe Met Leu Asp Arg Met
1 5

<210> 102
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 102

Thr Glu Val Asp Asp Arg His
1 5

<210> 103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 103

Gly Asp Gln Glu Asp Arg Met
1 5

<210> 104
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 104

His Asn Ile Asp Asp Arg Ile
1 5

<210> 105
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 105

Ala Ser Trp Glu Asp Arg Thr

1 5

<210> 106
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 106

Gly Gly Glu Asp Asp Arg Ser
1 5

<210> 107
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 107

Asp Ile Gln Asp Glu Arg Asn
1 5

<210> 108
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 108

Asp Thr His Ala Asp Lys Ser
1 5

<210> 109
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 109

Gly Ser Gly Gly Asp Arg Met
1 5

<210> 110
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 110

Gly Glu Ile Met Asp Arg Ser
1 5

<210> 111
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 111

Gly Ser Gly Gly Asp Lys Thr
1 5

<210> 112
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 112

Gly Ser Gly Gly Asp Arg Ala
1 5

<210> 113
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 113

Gly Asp His Leu Asp Arg Met
1 5

<210> 114
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 114

Gly Gln Gln Asp Asp Arg Gln
1 5

<210> 115
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 115

Ala Leu Ala Ala Asp Arg Met
1 5

<210> 116
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 116

Val Gly Phe Asp Asp Arg Thr
1 5

<210> 117
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 117

Tyr Ala Gln Asp Glu Arg Thr
1 5

<210> 118
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 118

Gly Gly Arg Glu Glu Arg Asn
1   5

<210> 119
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 119

Gly Ser Gly Gly Asp Arg Met
1   5

<210> 120
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 120

Gly Ser Gly Gly Asp Arg Glu
1   5

<210> 121
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 121

Ile Ala Tyr Gln Asp Arg Met
1   5

<210> 122

<210> 175
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 175

Val Glu Phe Tyr Asp Arg Met
1 5

<210> 176
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 176

Gly Ser Gly Gly Glu Arg Ile
1 5

<210> 177
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 177

Ser Leu Asp Asp Asp Arg Thr
1 5

<210> 178
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 178

Ser Gly Gly Gln Glu Arg Ser
1 5

<210> 179

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 179

Asp Ile Asn Asp Asp Arg Ser
1 5

<210> 180
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 180

Asp His Val Trp Asp Arg Ala
1 5

<210> 181
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 181

Gly Ser Gly Gly Asp Arg Ile
1 5

<210> 182
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 182

Ile Glu Asp Glu Asp Arg Ala
1 5

<210> 183
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 183

Met Thr Phe Asp Glu Arg Gly
1 5

<210> 184
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 184

Gly Asp Trp Asp Asp Lys Asn
1 5

<210> 185
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 185

Ile Ala Tyr Gln Asp Arg Met
1 5

<210> 186
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 186

Gly Ser Gly Gly Asp Arg Ile
1 5

<210> 187
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 187

Gly Phe Val Gln Glu Arg Met
1 5

<210> 188
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 188

Asp Ile Asn Asp Asp Arg Ser
1 5

<210> 189
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 189

Gly Trp Asn Asp Asp Arg Ile
1 5

<210> 190
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 190

Gly Gly Phe Glu Asp Arg Leu
1 5

<210> 191
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 191

Gly Ser Gly Gly Asp Arg Asn
1 5

<210> 192
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 192

Ala Ala Val Glu Asp Arg Asn
1 5

<210> 193
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 193

Asp Tyr Arg Leu Asp Arg Ile
1 5

<210> 194
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 194

Gly Asp Asp Asp Asp Lys Ile
1 5

<210> 195
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 195

Asp Arg Met Tyr Gln Leu Asp Lys Thr Gly Phe Met Ile
1 5 10

<210> 196
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 196

Ala Val Leu Ser Asn Val Met His Ser Asp Asp Trp Thr
1 5 10

<210> 197
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> natural enterokinase cleavage sequence

<400> 197

Gly Asp Asp Asp Asp Lys Ile Tyr Val
1 5

<210> 198
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> negative control in EK cleavage experiment

<400> 198

Ala Val Leu Ser Asn Val Met Phe Ile
1 5

<210> 199
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic enterokinase cleavage sequence

<400> 199

Gly Asn Tyr Thr Asp Arg Met Phe Ile
1 5

<210> 200
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 200

Asp Ile Asn Asp Asp Arg Ser Leu Phe
1 5

<210> 201
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 201

Asn Lys Ala Lys Asp Arg Met Phe Ile
1 5

<210> 202
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 202

Gly Asn Tyr Thr Asp Arg Arg Phe Ile
1 5

<210> 203
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> commercial synthetic enterokinas cleavage substrate

<400> 203

Gly Asn Tyr Thr Asp Arg Tyr Phe Ile
1 5

<210> 204
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<400> 204

Asp Ile Asn Asp Asp Arg Xaa
1 5

<210> 205
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<400> 205

Gly Asn Tyr Thr Asp Arg Xaa
1 5

<210> 206
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE

<222> (1)..(1)
<223> Xaa1 is an optional amino acid which, if present, is Ala, Asp, Gl
u, Phe, Gly, Ile, Asn, Ser, or Val

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 is an optional amino acid which, if present, is Ala, Asp, Gl
u, His, Ile, Leu, Met, Gln, or Ser

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa3 is an optional amino acid which, if present, is Asp, Glu, Ph
e, His, Ile, Met, Asn, Pro, Val, or Trp

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa4 is Ala, Asp, Glu, or Thr

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa7 is any amino acid

<400> 206

Xaa Xaa Xaa Xaa Asp Arg Xaa
1 5

<210> 207
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa1 is an optional amino acid which, if present, is Asp or Glu

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 is an optional amino acid which, if present, is Val

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa3 is an optional amino acid which, if present, is Tyr

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa4 is Asp, Glu or Ser

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa7 is any amino acid

<400> 207

Xaa Xaa Xaa Xaa Glu Arg Xaa
1 5

<210> 208
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 208

Asp Ile Asn Asp Asp Arg
1 5

<210> 209
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 209

Gly Asn Tyr Thr Asp Arg
1 5

<210> 210
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> streptavidin binding sequence

<400> 210

Trp His Pro Gln Phe Ser Ser
1 5

<210> 211
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> steptavidin binding sequence

<400> 211

Pro Cys His Pro Gln Phe Pro Arg Cys Tyr
1 5 10

<210> 212
<211> 1272
<212> DNA
<213> Artificial Sequence

<220>
<223> Bacteriophage M13mp18

<400> 212
gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca ctccgctgaa 60

actgttgaaa gttgtttagc aaaaccccat acagaaaatt catttactaa cgtctggaaa 120

gacgacaaaa ctttagatcg ttacgctaac tatgagggtt gtctgtggaa tgctacaggc 180

gttgtagttt gtactggtga cgaaactcag tgttacggta catgggttcc tattgggctt 240

gctatccctg aaaatgaggg tggtggctct gagggtggcg gttctgaggg tggcggttct 300

gagggtggcg gtactaaacc tcctgagtac ggtgatacac ctattccggg ctatacttat 360

atcaaccctc tcgacggcac ttatccgcct ggtactgagc aaaaccccgc taatcctaat 420

ccttctcttg aggagtctca gcctcttaat actttcatgt ttcagaataa taggttccga 480

aataggcagg gggcattaac tgtttatacg ggcactgtta ctcaaggcac tgaccccgtt 540

aaaacttatt accagtacac tcctgtatca tcaaaagcca tgtatgacgc ttactggaac 600

ggtaaattca gagactgcgc tttccattct ggctttaatg aagatccatt cgtttgtgaa 660

tatcaaggcc aatcgtctga cctgcctcaa cctcctgtca atgctggcgg cggctctggt 720

ggtggttctg gtggcggctc tgagggtggt ggctctgagg gtggcggttc tgagggtggc 780

ggctctgagg gaggcggttc cggtggtggc tctggttccg gtgattttga ttatgaaaag 840

atggcaaacg ctaataaggg ggctatgacc gaaaatgccg atgaaaacgc gctacagtct 900

gacgctaaag gcaaacttga ttctgtcgct actgattacg gtgctgctat cgatggtttc 960

attggtgacg tttccggcct tgctaatggt aatggtgcta ctggtgattt tgctggctct 1020

aattcccaaa tggctcaagt cggtgacggt gataattcac ctttaatgaa taatttccgt 1080

caatatttac cttccctccc tcaatcggtt gaatgtcgcc cttttgtctt tagcgctggt 1140

aaaccatatg aattttctat tgattgtgac aaaataaact tattccgtgg tgtctttgcg 1200

tttcttttat atgttgccac ctttatgtat gtattttcta cgtttgctaa catactgcgt 1260

aataaggagt ct 1272

<210> 213
<211> 424
<212> PRT
<213> Artificial Sequence

<220>
<223> Bacteriophage M13mp18

<400> 213

Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
1 5 10 15

His Ser Ala Glu Thr Val Glu Ser Cys Leu Ala Lys Pro His Thr Glu
20 25 30

Asn Ser Phe Thr Asn Val Trp Lys Asp Asp Lys Thr Leu Asp Arg Tyr
35 40 45

Ala Asn Tyr Glu Gly Cys Leu Trp Asn Ala Thr Gly Val Val Val Cys
50 55 60

Thr Gly Asp Glu Thr Gln Cys Tyr Gly Thr Trp Val Pro Ile Gly Leu
65 70 75 80

Ala Ile Pro Glu Asn Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu
85 90 95

Gly Gly Gly Ser Glu Gly Gly Gly Thr Lys Pro Pro Glu Tyr Gly Asp
100 105 110

Thr Pro Ile Pro Gly Tyr Thr Tyr Ile Asn Pro Leu Asp Gly Thr Tyr
115 120 125

Pro Pro Gly Thr Glu Gln Asn Pro Ala Asn Pro Asn Pro Ser Leu Glu
130 135 140

Glu Ser Gln Pro Leu Asn Thr Phe Met Phe Gln Asn Asn Arg Phe Arg
145 150 155 160

Asn Arg Gln Gly Ala Leu Thr Val Tyr Thr Gly Thr Val Thr Gln Gly
165 170 175

Thr Asp Pro Val Lys Thr Tyr Tyr Gln Tyr Thr Pro Val Ser Ser Lys
180 185 190

Ala Met Tyr Asp Ala Tyr Trp Asn Gly Lys Phe Arg Asp Cys Ala Phe
195 200 205

His Ser Gly Phe Asn Glu Asp Pro Phe Val Cys Glu Tyr Gln Gly Gln
210 215 220

Ser Ser Asp Leu Pro Gln Pro Pro Val Asn Ala Gly Gly Gly Ser Gly
225 230 235 240

Gly Gly Ser Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly
245 250 255

Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Gly Gly Gly Ser Gly
260 265 270

Ser Gly Asp Phe Asp Tyr Glu Lys Met Ala Asn Ala Asn Lys Gly Ala
275 280 285

Met Thr Glu Asn Ala Asp Glu Asn Ala Leu Gln Ser Asp Ala Lys Gly
290 295 300

Lys Leu Asp Ser Val Ala Thr Asp Tyr Gly Ala Ala Ile Asp Gly Phe
305 310 315 320

Ile Gly Asp Val Ser Gly Leu Ala Asn Gly Asn Gly Ala Thr Gly Asp
325 330 335

Phe Ala Gly S r Asn Ser Gln Met Ala Gln Val Gly Asp Gly Asp Asn
340 345 350

Ser Pro Leu Met Asn Asn Phe Arg Gln Tyr Leu Pro Ser Leu Pro Gln
355 360 365

Ser Val Glu Cys Arg Pro Phe Val Phe Ser Ala Gly Lys Pro Tyr Glu
370 375 380

Phe Ser Ile Asp Cys Asp Lys Ile Asn Leu Phe Arg Gly Val Phe Ala
385 390 395 400

Phe Leu Leu Tyr Val Ala Thr Phe Met Tyr Val Phe Ser Thr Phe Ala
405 410 415

Asn Ile Leu Arg Asn Lys Glu Ser
420

<210> 214
<211> 957
<212> DNA
<213> Artificial Sequence

<220>
<223> Bacteriophage M13mp18

<400> 214
aaacctcctg agtacggtga tacacctatt ccgggctata cttatatcaa ccctctcgac 60

ggcacttatc cgcctggtac tgagcaaaac cccgctaatc ctaatccttc tcttgaggag 120

tctcagcctc ttaatacttt catgtttcag aataataggt tccgaaatag gcagggggca 180

ttaactgttt atacgggcac tgttactcaa ggcactgacc ccgttaaaac ttattaccag 240

tacactcctg tatcatcaaa agccatgtat gacgcttact ggaacggtaa attcagagac 300

tgcgctttcc attctggctt taatgaagat ccattcgttt gtgaatatca aggccaatcg 360

tctgacctgc ctcaacctcc tgtcaatgct ggcggcggct ctggtggtgg ttctggtggc 420

ggctctgagg gtggtggctc tgagggtggc ggttctgagg gtggcggctc tgagggaggc 480

ggttccggtg gtggctctgg ttccggtgat tttgattatg aaaagatggc aaacgctaat 540

aaggggggcta tgaccgaaaa tgccgatgaa aacgcgctac agtctgacgc taaaggcaaa 600

cttgattctg tcgctactga ttacggtgct gctatcgatg gtttcattgg tgacgtttcc 660

ggccttgcta atggtaatgg tgctactggt gattttgctg gctctaattc ccaaatggct 720

caagtcggtg acggtgataa ttcaccttta atgaataatt tccgtcaata tttaccttcc 780

ctccctcaat cggttgaatg tcgccctttt gtctttagcg ctggtaaacc atatgaattt 840

tctattgatt gtgacaaaat aaacttattc cgtggtgtct ttgcgtttct tttatatgtt 900

gccaccttta tgtatgtatt ttctacgttt gctaacatac tgcgtaataa ggagtct 957

<210> 215
<211> 319
<212> PRT
<213> Artificial Sequence

<220>
<223> Bacteriophage M13mp18

<400> 215

Lys Pro Pro Glu Tyr Gly Asp Thr Pro Ile Pro Gly Tyr Thr Tyr Ile
1 5 10 15

Asn Pro Leu Asp Gly Thr Tyr Pro Pro Gly Thr Glu Gln Asn Pro Ala
20 25 30

Asn Pro Asn Pro Ser Leu Glu Glu Ser Gln Pro Leu Asn Thr Phe Met
35 40 45

Phe Gln Asn Asn Arg Phe Arg Asn Arg Gln Gly Ala Leu Thr Val Tyr
50 55 60

Thr Gly Thr Val Thr Gln Gly Thr Asp Pro Val Lys Thr Tyr Tyr Gln
65 70 75 80

Tyr Thr Pro Val Ser Ser Lys Ala Met Tyr Asp Ala Tyr Trp Asn Gly
85 90 95

Lys Phe Arg Asp Cys Ala Phe His Ser Gly Phe Asn Glu Asp Pro Phe
100 105 110

Val Cys Glu Tyr Gln Gly Gln Ser Ser Asp Leu Pro Gln Pro Pro Val
115 120 125

Asn Ala Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Gly
130 135 140

Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly
145 150 155 160

Gly Ser Gly Gly Gly Ser Gly Ser Gly Asp Phe Asp Tyr Glu Lys Met
                165   170   175

Ala Asn Ala Asn Lys Gly Ala Met Thr Glu Asn Ala Asp Glu Asn Ala
            180   185   190

Leu Gln Ser Asp Ala Lys Gly Lys Leu Asp Ser Val Ala Thr Asp Tyr
        195   200   205

Gly Ala Ala Ile Asp Gly Phe Ile Gly Asp Val Ser Gly Leu Ala Asn
    210   215   220

Gly Asn Gly Ala Thr Gly Asp Phe Ala Gly Ser Asn Ser Gln Met Ala
225   230   235   240

Gln Val Gly Asp Gly Asp Asn Ser Pro Leu Met Asn Asn Phe Arg Gln
                245   250   255

Tyr Leu Pro Ser Leu Pro Gln Ser Val Glu Cys Arg Pro Phe Val Phe
            260   265   270

Ser Ala Gly Lys Pro Tyr Glu Phe Ser Ile Asp Cys Asp Lys Ile Asn
        275   280   285

Leu Phe Arg Gly Val Phe Ala Phe Leu Leu Tyr Val Ala Thr Phe Met
    290   295   300

Tyr Val Phe Ser Thr Phe Ala Asn Ile Leu Arg Asn Lys Glu Ser
305   310   315

<210> 216
<211> 450
<212> DNA
<213> Artificial Sequence

<220>
<223> Bacteriophage M13mp18

<400> 216
gattttgatt atgaaaagat ggcaaacgct aataaggggg ctatgaccga aaatgccgat 60

gaaaacgcgc tacagtctga cgctaaaggc aaacttgatt ctgtcgctac tgattacggt 120

gctgctatcg atggtttcat tggtgacgtt tccggccttg ctaatggtaa tggtgctact 180

ggtgattttg ctggctctaa ttcccaaatg gctcaagtcg gtgacggtga taattcacct 240

ttaatgaata atttccgtca atatttacct tccctccctc aatcggttga atgtcgccct 300

tttgtcttta gcgctggtaa accatatgaa ttttctattg attgtgacaa ataaactta 360

ttccgtggtg tctttgcgtt tcttttatat gttgccacct ttatgtatgt attttctacg 420

tttgctaaca tactgcgtaa taaggagtct 450

<210> 217
<211> 150
<212> PRT
<213> Artificial Sequence

<220>
<223> Bacteriophage M13mp18

<400> 217

Asp Phe Asp Tyr Glu Lys Met Ala Asn Ala Asn Lys Gly Ala Met Thr
1 5 10 15

Glu Asn Ala Asp Glu Asn Ala Leu Gln Ser Asp Ala Lys Gly Lys Leu
20 25 30

Asp Ser Val Ala Thr Asp Tyr Gly Ala Ala Ile Asp Gly Phe Ile Gly
35 40 45

Asp Val Ser Gly Leu Ala Asn Gly Asn Gly Ala Thr Gly Asp Phe Ala
50 55 60

Gly Ser Asn Ser Gln Met Ala Gln Val Gly Asp Gly Asp Asn Ser Pro
65 70 75 80

Leu Met Asn Asn Phe Arg Gln Tyr Leu Pro Ser Leu Pro Gln Ser Val
85 90 95

Glu Cys Arg Pro Phe Val Phe Ser Ala Gly Lys Pro Tyr Glu Phe Ser
100 105 110

Ile Asp Cys Asp Lys Ile Asn Leu Phe Arg Gly Val Phe Ala Phe Leu
115 120 125

Leu Tyr Val Ala Thr Phe Met Tyr Val Phe Ser Thr Phe Ala Asn Ile
130 135 140

Leu Arg Asn Lys Glu Ser
145 150

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 122

Ser Gly Gly Glu Asp Arg Ala
1 5

<210> 123
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 123

Leu Glu His Ser Asp Arg Val
1 5

<210> 124
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 124

Phe Lys Pro Asp Asp Arg Met
1 5

<210> 125
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 125

Val Pro Met Ala Asp Arg Ser
1 5

<210> 126
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 126

Gly Ser Gly Gly Glu Arg Ala
1 5

<210> 127
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 127

Asn Asp Asn Asp Glu Arg Ala
1 5

<210> 128
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 128

Gly Asn Tyr Thr Asp Arg Met
1 5

<210> 129
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 129

Gly Ser Gly Gly Glu Arg Val
1 5

<210> 130
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 130

Asp Glu Val His Asp Arg Thr
1 5

<210> 131
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 131

Gln His Asp Gly Asp Lys Thr
1 5

<210> 132
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 132

Thr Val Arg Ser Glu Lys Gly
1 5

<210> 133
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 133

Ser Gly Gly Thr Asp Arg Ile
1 5

<210> 134
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 134

Val Met Glu Asp Asp Arg Ala
1 5

<210> 135
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 135

Gly Ser Gly Gly Glu Arg Met
1 5

<210> 136
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 136

Ile Glu His Asp Asp Arg Met
1 5

<210> 137
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 137

Phe Ser Glu Glu Asp Arg Met
1 5

<210> 138
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synth tic enterokinase cleavage sequence

<400> 138

Phe Ser Glu Glu Asp Arg Met
1   5

<210> 139
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 139

Asp Val Tyr Ser Glu Arg Met
1   5

<210> 140
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 140

Asp Met Phe Asp Asp Arg Met
1   5

<210> 141
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 141

Phe Ser Glu Glu Asp Arg Met
1   5

<210> 142
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic enterokinase cleavage sequence

<400> 142

Glu His Leu Phe Asp Arg Met
1 5

<210> 143
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 143

Ser Trp Ile Ser Asp Arg Val
1 5

<210> 144
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 144

Asn Asp Glu Asp Asp Arg Met
1 5

<210> 145
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 145

Ser Leu Asp Asp Asp Arg Thr
1 5

<210> 146
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 146

Gly Ser Gly Gly Asp Arg Asp
1 5

<210> 147
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 147

Pro His Ile Glu Asp Arg Met
1 5

<210> 148
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 148

Ser Gly Gly Asp Asp Arg His
1 5

<210> 149
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 149

Glu Val Phe Ala Asp Arg Ser
1 5

<210> 150
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 150

Gly Leu Ala Glu Asp Arg Thr
1 5

<210> 151
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 151

Ser Gly Gly Asp Asp Arg Leu
1 5

<210> 152
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 152

Ser Gly Gly Asp Asp Arg Met
1 5

<210> 153
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 153

Gly Leu Val Ser Glu Arg Gly
1 5

<210> 154
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 154

Gly Gly Phe Glu Asp Lys Met
1 5

<210> 155
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 155

Ser Leu Asp Asp Asp Arg Thr
1 5

<210> 156
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 156

Asp Val Tyr Ser Glu Arg Met
1 5

<210> 157
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 157

Asn Met Asp Trp Asp Arg Ser
1 5

<210> 158
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 158

Ser Leu Asp Asp Asp Arg Thr
1 5

<210> 159
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 159

Gly Ser Gly Gly Asp Arg Met
1 5

<210> 160
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 160

Phe Ser Glu Glu Asp Arg Met
1 5

<210> 161
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 161

Ser Leu Asp Asp Asp Arg Thr
1 5

<210> 162
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 162

Val Asp Met His Asp Arg Met

1 5

<210> 163
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 163

Ser Gly Gly Asp Asp Arg Met
1 5

<210> 164
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 164

Asn Val Arg Met Asp Arg Ser
1 5

<210> 165
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 165

Ser His Arg Asp Glu Lys Val
1 5

<210> 166
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 166

Leu Met Asn Asp Asp Arg Ala
1 5

<210> 167
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 167

Phe Val Met Asn Asp Lys Gly
1 5

<210> 168
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 168

Val Ser Asp Asp Asp Arg Ala
1 5

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 169

Gly His Val Asp Asp Arg Met
1 5

<210> 170
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 170

His Ala Ile Glu Glu Arg Ser
1 5

<210> 171
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 171

Asp Ile Asn Asp Asp Arg Ser
1 5

<210> 172
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 172

Gly Ser Gly Gly Glu Arg Thr
1 5

<210> 173
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 173

Ala Val Ile Gly Asp Arg Ser
1 5

<210> 174
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic enterokinase cleavage sequence

<400> 174

Ser Gly Gly Glu Glu Arg Gly
1 5